## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE    |
|---------------------------|----------|--------|---------|
| FEE DETERMINATION         | ST.      |        | 3-30-00 |
| O.I.P.E. CLASSIFIER       | 13.7     |        | 1/4/2// |
| FORMALITY REVIEW          |          |        |         |
| RESPONSE FORMALITY REVIEW |          | 61001  | 6/8/00  |
|                           |          |        | 7-7-    |

## INDEX OF CLAIMS

| ~ | Rejected                   | , N | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | I   | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

| Cla      | aim  | Date  7   1   6   0   0   0    9   0   1   1   1    00   00   01   02    1   1   1   1    1   1   1    1   1 |          |                   |                |              |                |  | [  | Cla           | im         |          |                            |         | Dat              | te           |                |          |          |          | Cia   | im       |             |          |          |    | Dat | e             |              |          |  | _  |  |              |
|----------|--|--|----------|-------------------|----------------|--------------|----------------|--|----|---------------|------------|----------|----------------------------|---------|------------------|--------------|----------------|----------|----------|----------|---|----------|-------------|----------|----------|----|-----|---------------|--------------|----------|--|--|--|--------------|
|          | 1 = 1  | VIV  | 109      | 02                | 65             | 7            | 7              | Т  | T  |               |            | ╗        | =                          | Т       | Τ                | Т            |                | ァ        | 3/8/3    | П        | Т   |          |             |          | П        |    |     |               | Г            |          | Γ_   |  | _  | Γ            |
| ्रा      | ΙšΜ  | 9/67   | 18       | 1                 | et             | n            | 4              |  |    |               | 1          | <u>=</u> | SZ Original                |         | į.               | 1            |                | 200      | 18       |          | ļ   |          | क           | Original | -        | ļ  |     |               |              |          | l  |  | 1  | 1            |
| Fira     | ١١١  | 60 6   | 16       | 1/2               | 6              | 163          | •              |  |    |               |            | Final    | ő                          |         |                  |              |                | m        | 63       | - 1      |   |          | Final       | र्ह      |          |    |     |               |              |          |  |  | ĺ  | 1            |
|          | $\mathcal{M}$  | + 1.7  | 1        |                   | Γ.             | ╅            | 1              | <del>                                     </del> | 1- |               |            | 1        | ŠŪ                         |         | 1                | <del> </del> | -              | V        | =        |          | _   | 7        | -           | 101      | _        |    |     |               |              |          | _  |  | _  | 1            |
| -        | 15   | HY   | +-       |                   | ┼              | ╁┈           | 1              | ╁  | -  | 1-1           | 1          | 2        | 52<br>53<br>54             |         | ┪~               | +            | -              | -        | 1        | _        | -   | ┪        |             | 102      | +        | -  | _   |               |              | -        |  | -  | -  | ┼-           |
| -        |  | ╁┼╂  | ╁╋       | <del> </del>      | <del> </del> ─ | +-           | +-             | 1  | ╁  |               |            | 2        | 53                         | -       | +-               | ╆            | -              | H        | 11-1     | -        |   | -        | -           | 103      | +        | -  | _   |               |              |          | -  | -  | i—   | ╁            |
| -        | F  | 1-1-1  | ╁        | ⊢                 | ⊢              | ١.           | +-             | 1  | ┼  | $\vdash$      |            | ٦,       | <del>2</del> 1-            | - -     | ╁                | ┼            |                | Н        | H        | -        | +   | $\dashv$ | $\vdash$    | 104      | -        |    |     |               | Н            |          | -  |  | ⊢  | ⊢            |
| }        | $\langle t \rangle$                                      | Н  | +        | -                 | ├-             | +            | ╀              | -  | +  | ╢             | i.         | J        | ==                         |         | ╀                | ╁            | ├              | H        | 11-1     |          | -+-   | -        | -           | 105      | +        | -  | -   |               | -            |          |  | H  | ⊢  | ╁            |
| <u> </u> | МH   | - -  | ++       |                   | <del> </del>   | -            |                | -  | +- | <del>  </del> | 1          | 5        | 55<br>56<br>57             | - -     | +-               | +            | -              | H        | ┨┫       | $\dashv$ |   | -        | -           | 106      | +        | -  |     |               | -            | _        | <u> </u>   | -  |  | ╁~           |
| <u> </u> | 5  |  | 11       | _                 | <del> </del>   | -            | +-             | -  | ╁  | 11            |            | 7.↓      | 56                         | -       | +                | ┼            | <u> </u>       | Η-       | ╌╂╌┤     | -        |   | -        | <del></del> | 107      | 4        | -  | -   |               | _            | _        | <u> </u>   |  | <u> </u>   | ╄            |
| _        |  | 1  | 44       | <u> </u>          | <u> </u>       | -            | 1              | 1  | ╄- | Н             | 13         | ٤        | 5/                         | -       | -                | ╄            |                | 4-       | H        | -        | -   | 4        | -           |          | 4        | -  | _   |               |              | _        | L  |  | <u> </u>   | <del> </del> |
|          | B 60 80  | Ш  | Ц.       | <u> </u>          | ļ              | <u> </u>     | 1              | -  | -  | -             | Į          | 7        | 58                         |         | 4-               | ↓            | <u> </u>       | 4        | Ш        | _        | $\dashv$  | 4        |             | 108      | 4        | _  | _   | _             |              |          | L  | _  | <u> </u>   | ┺            |
| 1        | ND.  | Ш  | Ц        | <u> </u>          | L              | 1_           | 1              | L  | -  | 1_            | -          |          | 60<br>61                   | _       | 1                | 1_           |                | Ц_       | 1        | _        | $\perp$   | 4        | <u> </u>    | 109      | 4        | _  | _   |               |              |          |  |  | <u>_</u>   | ┺            |
| Ĺ        | 10   | Ш  | Ш        | L                 |                | 1_           | 1_             | _  | L  | 1_1           | i M        | 8        | 60                         |         |                  | _            | Ŀ              | Ш        | =        |          |   | ┙        |             | 110      |          |    |     |               |              |          |  |  |  | L            |
|          |  | Ш  | Ш        |                   |                | <u> </u>     | 1              | 1  | 1_ |               | L          |          | W)                         |         | 1_               | <u> </u>     | L              | Ш        |          |          |   | ╛        |             | 111      |          | ·  | ٠.  |               |              |          |  |  |  | L            |
|          | 10   | П  | π        | Π                 | Г              | Т            |                | I  | Т  |               | Γ.         | Γ        | 02                         |         | $\mathbf{I}^{-}$ | l            |                |          |          |          |   | 7        |             | 112      |          |    |     |               |              |          |  |  |  | 1            |
|          | (P)  | V  | V        | Π                 | Γ              |              | 1              |  | _  |               | Г          | T        | <b>e</b> 3                 |         | Т                |              | Γ              | П        | П        | П        | 7   | 7        |             | 113      | Т        |    |     |               |              |          |  |  |  | Г            |
| 1        | য়ের   | 1  | 1        | 1                 | 1              | $\top$       | T              |  | T  | $\vdash$      | -          | 7        | <b>d</b> 4                 | 1       | 1                | 1            | 1              | П        | П        | 7        | $\neg$  | 7        |             | 114      | 7        |    |     | $\overline{}$ |              | _        |  |  |  | 1            |
| ļ        | ₫!   | M  | +-       | 一                 | t              | 1            | 1              | $\vdash$   | 1  | $\vdash$      |            | 7        | 由                          | $\neg$  | 1                | $\vdash$     | Ι_             | П        | П        | $\dashv$ | $\top$  | ヿ        |             | 115      | 7        | ᅥ  |     |               |              | _        |  |  |  | $\vdash$     |
| <u> </u> | 000  | Εlν  |          | †                 | t-             | 1            | 1              | 1  | 1  | +             |            | 7        | 63<br>64<br>65<br>66<br>67 | $\top$  | $\top$           | t            | Г              | H        | H        | 7        | $\dashv$  | 1        |             | 116      | +        | -  |     |               |              |          | _  | $\vdash$   |  | +            |
| 1        | 17   | ЧШ   | 15       | +                 | 7              | +-           | 1              | +-   | +- | +             | H          | +        | 47                         | +       | +-               | +            | Η-             | 1        | Н        | +        | +   | 7        |             | 117      | +        | -  | -   | -             | Н            | Н        |  |  | <del>                                     </del> | +-           |
| 1        | <b>116</b> +   | 4  | . 5      | ۲.                | ۱Ť             | +            | +-             | +  | +  |               | <b> </b> - | ٦,       | 1                          | +-      | ╁                | +-           | <del>  -</del> | H-       | H        | -+       | $\dashv$  | -        | -           | 118      | -+       | -  | _   | -             |              | -        | -  |  |  | +-           |
| -        | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3                    |  | +-       | +-                | ╁┼             | +-           | +-             | +-   | +- | +             | <b> </b> - | -1       | 69                         | +       | +-               | +            | -              | Η-       | $\vdash$ | $\dashv$ | +   | $\dashv$ |             | 119      | -+       | -  | -   |               |              | -        | $\vdash$   | $\vdash$   | -  | ┼            |
| -        |  | - -  | 1        | ₩                 | Н              | ╀            | -              | -  | -  | 1-1           | ⊢          |          |                            |         | +-               | ┼            |                | 4-       |          |          | -   | -        | -           | _        | -        | -1 | -   |               | _            |          | <u> </u>   |  | _  | ⊢            |
| _        | <b> </b> 20  | _l_  |          | Ц.                | Ц.             | _            | _              | _  | _  | _             | _          | _        | 70                         |         | 1_               | L            |                | Щ        | Ш        |          | $\dashv$  | _        |             | 120      | 4        |    | _   |               |              |          |  |  |  | L            |
|          | 41   |  | 1_       |                   | Ш              | L            | L              |  | L. |               | L          | $\perp$  | 71                         |         | _                |              |                | Ш        | Ш        |          |   | _        |             | 121      | ┙        |    |     |               |              |          |  |  |  | L            |
|          | 222  |  | Τ        | П                 | П              |              |                |  |    |               |            |          | 72                         |         | 1_               |              | _              |          |          |          |   |          | L           | 122      |          |    |     | 1             |              |          |  |  |  | 1.           |
| 7        | [40]   | 2  | Т        | П                 | П              |              | Ī              | T  | T  |               |            |          | 71 72 73 74 76 77          | П       | Τ                | Г            |                | П        |          | $\neg$   | П   |          |             | 123      | П        |    |     |               |              |          |  |  |  | Γ            |
|          | <b>3</b> #   | =  | Т        | Ħ                 | 17             | 1            | 1              | 1  | 1  |               |            | ٦        | 74                         | ヿ       | 1                | Τ            |                | П        | П        | 7        | 7   | ٦        |             | 124      | 7        |    |     |               |              |          | l  |  |  | Г            |
|          | 26   | -  | T        | 11                | П              | $\top$       | Τ              | 1  | 1  | 1-1           |            |          | 765                        | 7       | 7                | 1            |                |          |          | 7        |   | 7        |             | 125      | 7        | _  |     |               |              | -        |  |  |  | 1            |
| $\vdash$ | 25<br>25<br>27<br>29<br>30<br>31<br>32<br>33<br>35<br>35 |  | 1-       | 11                | 17             | $\vdash$     | t              | 1  | 1  | t             | F          | T        | 76                         |         | †-               | †            |                | 1        |          | 7        |   | 7        |             | 126      | 7        |    |     | _             | Т            |          | _  | $\Box$   | Т  | ✝            |
|          | 37   |  | 十        | $\dagger \dagger$ | ++             | 1-           | -              | $\vdash$   | +  | 1             | -          | 7        | 7                          | _       | +-               | †            |                | •        | $\vdash$ | 7        | $\pm$   | ┪        |             | 127      | -+       | _  | -   |               | _            | _        | ┢  | Н  | -  | t            |
| 1        |  | <del>\</del> -   | +        |                   | H-             | +-           | +              | +  | +  | 11            | <b> </b> - |          | 78                         | -       | ┿                | ╁╌           | -              | -        |          | -1       |   | 1        | -           | 128      | +        | -  |     | -             | -            | -        |  | -  | -  | ┼-           |
| -        | 1  | <del>"</del>   | ╁        | +                 | +-             | ╁            | +-             |  | ╢  | ╢             | \<br> -    |          | 79                         | - -     | ╁                | ╁╾           | -              | -        | Н        | $\dashv$ | -+-   | 4        |             | 129      | +        | -  | -   |               | -            |          | -  |  | -  | ┼            |
| -        | 1  |  | -        | -                 | -1-            | ┼-           | <del> </del> - | ⊢  | ╁  |               | -          | _        | 80                         | +       | ╀                | ₩            | -              | _        | Н        | $\dashv$ | +   | -1       |             | 130      | -4       | ┩  | -   |               | Н            | -        | ├  |  |  | ╁╌           |
| -        | 134  | +  | 丨        | $\vdash$          | 44-            | <del> </del> |                | -  | -  | ┦             | -          |          |                            | -       | +                | -            | Н              | _        | $\vdash$ | -        | +   | -1       |             |          | 4        |    | -   | _             |              | _        | <u> </u>   |  | Н  | ì–           |
|          | 31   | _ _  | 1_       | 1_1               | Ц.             | 1_           | L              | _  | ١  | $\Box$        | -          |          | 81                         |         | -                | ļ.,          |                |          | -        |          | -   | 4        |             | 131      | 4        | _  |     |               | _            | _        |  |  | _  | <del> </del> |
| <u> </u> | 32   |  | 1_       |                   | 14.            | <u> </u>     | ļ              | L  | L  | 1_            | L          |          | 82                         |         | 4                | <del> </del> | _              | _        |          | _        |   | =        | -           | 132      | -4       |    |     | _             |              |          |  | _  |  | 1            |
| Ŀ        | 33   |  | <u> </u> |                   | 1              | _            | <u> </u>       | <u> </u>   | 1_ | 1_1           | _          |          | 83                         |         | ١                | _            |                |          |          | _        |   | _        |             | 133      | _        | _  | _   |               | _            |          |  |  | _  | 1_           |
| C        | 31   | ٦٢_  |          |                   | 0              | _            | L              |  | _  | Ш             | L          |          | 84                         |         |                  | L            |                |          | Ш        | $\perp$  |   |          |             | 134      | $\perp$  |    |     |               |              |          |  |  |  | L            |
|          | 30   |  |          | 4                 |                | <u></u>      | <u>l</u>       | <u> </u>   | _  | 1_1           | L          |          | 85                         | l       |                  | _            |                |          |          |          |   | i        |             | 135      |          |    |     |               |              |          |  |  |  | L.           |
|          | 36   | -  |          | +                 | V              | 1            | Π              | Γ  | Τ  | -             | . [        |          | 86                         |         | Г                |              |                |          |          | 1        |   | 1        |             | 136      | Т        |    |     |               |              |          |  |  |  |              |
|          | <b>1</b>   | -  |          | T-                |                | 1            | Ξ              |  |    | П             |            |          | 87                         |         | Т                |              |                |          |          |          | Т   | ٦.       |             | 137      | П        |    |     |               |              |          |  |  |  |              |
| 2        | N  |  | 1        | 1                 |                | 1            | T              | †  | 1  |               |            | 7        | 88                         |         | Τ.               | 1            |                |          |          |          |   | 7        |             | 138      | 7        |    |     | _             |              | _        |  |  |  |              |
|          | 39   | +-   | +-       | +-                | 1-             | ††           | ††-            | +-   | +- | 1-1           | <b> </b>   | 7        | 89                         |         | +-               | 1            | _              | _        | 1        | _        |   | 7        |             | 139      | 7        |    |     |               |              | _        |  |  | _  | 1-           |
| 1375     | 40   |  | +        | $\vdash$          |                | ++           | H              | +-   | ╁╌ | $\vdash$      | <b> </b> - |          | 90                         | +       | +                | ╁            | Н              | $\vdash$ | Н        | $\dashv$ | 十   | 1        | -           | 140      |          | -  |     | _             | Н            | Н        |  |  | -  | ┼┈           |
| 2.       | 41   |  | ╁        | ╁                 | ├              | ╂            | ╂              | ╫  | +- |               | l ⊦        | 1        | 91                         |         | ╁                | ╂            | ⊢              | -        | ╌┤       | -+       | -   | -        |             | 141      | -+       | -  |     |               |              | -        |  | -  | $\vdash$   | ╁            |
| 4        |  |  | -        | ļ                 | _              | 44           | Н              | ╄-   | 1- | 11            |            |          |                            |         | <del></del> -    | <del> </del> | <u> </u>       | _        |          |          |   | 4        |             |          | -4       | _  |     |               | _            | _        | ļ.,  | -  | _  | ╄            |
|          | 42   |  | 1_       | <u> </u>          | ļ              | 11           | Ш              | 1  | 4_ | $\perp$       | -          |          | 92                         | 4-      | ╄                | 4            | <u> </u>       | L.       | Ц        | _        | -1-   | 4        | <u> </u>    | 142      | 4        | _  |     | _             |              | └        | <u> </u>   |  | _  | 1            |
| 1        | N  |  | 1        | _                 | <u> </u>       | Ц.           | Ц              | 丄  | 1_ | 1             |            | -        | 93                         | _       | 1                | 1            |                | _        | Ш        | ┙        | $\perp$   | 4        | _           | 143      | 4        |    | -   | _             | <u> </u>     | <u> </u> | <u>_</u>   | <u>_</u>   | _  | Ļ            |
| . 6      | 44   |  | L        | L                 | L              | Ш            | Ш              | L  | L  | Ш             | L          |          | 94                         | ⊥       | Ľ                | L            | L              |          | Ш        |          | $\perp$   | ╛        | L           | 144      | ┙        |    |     | L             |              |          | _  |  |  | L.           |
| 7        | 13   | 7  |          |                   |                | П            | П              |  |    |               | Г          |          | 95                         | $\perp$ |                  | $\Gamma$     |                |          |          |          | $oldsymbol{ol}}}}}}}}}}}}}} $ | _]       |             | 145      |          |    |     |               |              |          |  | Ĺ  | L  |              |
| 15.      | <b>1</b>   |  | 1        | 1                 |                | П            | П              | T  | 1  |               |            | ٦        | 96                         | T       | Г                | Т            | T              | Γ.       | П        | $\neg$   | Т   | 7        |             | 146      | 7        |    |     |               | ·            | _        | Γ  |  | T  | Ī            |
|          |  | $\dashv$   | 1        | Т                 | 1              | 71           | 77             | 1  | 1  |               |            |          | 97                         |         | 1                | 1            | Г              | Γ-       | П        |          | 十   | ٦        |             | 147      | 7        |    |     |               | T            |          | П  | Γ-   | Г  | Г            |
| ١ŏ.      | 48   |  | +        | 1                 | 1-             | ++           | +1             | +-   | -  | $\vdash$      | -          |          | 98                         | +       | +-               | +            | $\vdash$       | -        |          | -        | +   | 7        | -           | 148      | -+       |    | _   | -             | _            | -        | <del> </del>                                     | 1  | <b>-</b> -                                       | †            |
| 89.0     | 48<br>49   |  |          |                   | -              | +1           | Ħ              | +-   | -  | 1             | -          |          | 99                         |         | +                | +-           | 1-             |          |          |          | +   | -        | -           | 149      | +        | -  |     | -             | <del> </del> | $\vdash$ | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | †-           |
| 10       | 50   | -+-  | +-       | $\vdash$          | -              | 7            |                | -  | +- | $\vdash$      | -          |          | 100                        | +-      | +-               | +-           | ├-             | -        | $\vdash$ | $\dashv$ | +   | $\dashv$ | $\vdash$    | 150      | $\dashv$ |    | -   | -             | -            | -        | 1-   |  | <del> </del>                                     | +            |
|          | 1001   | - 1  | 1        | 1                 | 1              | 1.           |                | ١  | 1  |               | l L        | 1        |                            | - 1     | 1                | 1            |                |          | 1        |          |   |          |             |          |          |    |     |               |              |          |  | _  | ٠  | _ـــ         |

If more than 150 claims or 10 actions staple additional sheet here .